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I herewith respectfully request the return of the following named motion picture films deposited by me for registration of copyright in the name of

EINSTEIN THEORY OF RELATIVITY (4 reels)

Respectfully

FULTON BRYLAWSKI

The R/-C. Pictures Corporation hereby admowledges the receipt of two copies each of the motion picture films deposited and registered in the Copyright Office, as follows:

> Date of Deposit Registration Title

EINSTEIN THEORY OF RELATIVITY

5/1/23 OCIM 2271

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OCIM 2271

THE EINSTEIN THEORY OF RELATIVITY

Motion picture in four reels

Produced under the supervision of Prof. Albert Einstein's associates, Professors S. F. Nicolai, H. W. Kornblum, C. Bueck, C. Santa, R. Lammel and H. Beck

Arranged by Max Fleischer

Author of the Motion picture (under Sec. 62)

R. C. Disturce Corporation of the U. S.

Premin Production Inc.

original

1 TITLE

Edwin Miles Fadman

Presents

OCIM 2271

THE EINSTEIN THEORY OF

RELATIVITY

A PREMIER PRODUCTION

2 TITLE

Produced under the supervision of Prof. Albert Einstein's associates, Professors S. F. Nicolai, H. W. Kornblum, C. Bueck, C. Santa, R. Lammel and H. Beck.

3 TITLE

Edited by: Garrett P. Serviss

Popular version arranged by Max Fleischer

4 TITLE

Just as Galileo, Newton and Darwin, in their centuries, revolutionized old-established ideas, so has Prof. Albert Einstein shaken modern scientific beliefs to their foundations.

5 TITLE

It has been stated that Einstein's Theory is so complicated that only twelve men possess sufficient learning to fully grasp it.

A subject requiring a life-time to master, obviously cannot be demonstrated in a few minutes. This is therefore an attempt to explain only some of its more popular ideas.

6 TITLE

All popular knowledge of Einstein centers around the mysterious word Relativity.

The word itself means "the relationship of" or "dependency upon".

For instance: - Whether an object is long or short, large or small, "depends upon" the object with which it is compared.

7 TITLE

This principle of relating one thing to another (Relativity) is applied by Einstein to everything in the Universe.

8 TITLE

Einstein's great Theory is built upon the same scientific laws which inspired present-day inventions.

We are all familiar with these achievements: --

9 TITLE Man-power has become steam-power. Man with shovel digging trench. 10 SCENE Man in caboose - pulls a lever (cut to) longer view showing 11 SCENE steam shovel in action. As the steam shovel is about to pick up ton of earth, (cut to) man pressing his foot against blade of shovel he experiences difficulty, removes a small stone - throws it aside and picks up a shovel full of dirt. Then cut to the steam shovel just lifting a great jawful. 12 TITLE If Robert Fulton, inventor of the steamboat, saw this, he would exclaim: "That thing will sink!" Modern battle-ship. 13 SCENE 14 TITLE Thousands of tons of steel afloat! Battleship under bridge 15 SCENE (Bird's eye view) The mechanical Demon has practically abolished the horse and 16 TITLE buggy. A fast modern automobile. The driver gets into machine and 17 SCENE prepares to start. Cut to (close-up) of foot about to be pressed on starter button

18 TITLE

19 SCENE

Foot comes down on starter. Cut to Auto showing smoke at rear. Car starts off and swiftly disappears in distance.

20 TITLE Away with the ferry! 21 SCENE Bridge 22 TITLE Thousand League Boots! 23 SCENE Railroad Train 24 TITLE The huts we build today: 25 SCENE Forty Story Buildings. 26 TITLE The miracles of yesterday are the commonplaces of today. 27 SCENE Electric Fan 28 SCENE Typewriter 29 SCENE Phonograph 30 SCENE Moving Picture Camera 31 SCENE Adding Machine 32 TITLE The magic carpet. 33 SCENE Airplane

34 TITLE We now come to inventions dealing with the forces on which Einstein based his Theory. 35 SCENE Girl at telephone switch board is busy making and breaking telephone connections. (cut to) man at desk picking upphone and answering. 36 TITLE See what mechanical skill was necessary to harness electricity to the human voice! 37 SCENE Man at switch board, he takes it apart and reveals the complexity of wiring. 38a TITLE "Listening in" on a thousand mile whisper. 38b SCENE First, a scene of the masts of the ship, and then close-up of man listening with receiver to ear. 39 TITLE Eyes that pierce solids! 40 SCENE X-Ray Laboratory. Hand dissolves into skeleton hand. 41 TITLE To attain these inventions, many obstacles had to be overcome, one of the greatest being the deception of our senses. Here is an instance: --In a square opening in the center of the screen a diagonal line. 42 SCENE It appears to be broken about in the middle. 43 TITLE What is the shape of the black line? SCENE Broken line in glass.

45 TITLE "Broken near the middle?" Same broken line as in scene 42. The screen opens and reveals the line immersed in a glass of water. A tube is inserted into the water. The water is drawn off and the line is shown to be straight. 46 SCENE 47 TITLE Another example: 48 SCENE Black background upon which is a white circle. Note appears reading: "What is the color of the circle?" 49 TITLE "White?" It certainly appears white. But is it white? 50a SCENE Same circle on black background as in scene 48. A note appears reading "Against the Black Background the circle appears white-" The black background slides away from behind the circle and a white background takes its place, the circle is now obviously grey. Against a white background the circle now appears grey. 50b TITLE 50c SCENE Same as Scene 50a-51 TITLE An instance of deception caused by Relativity of Motion. Here is a passing car fired upon by one of four gunners. Car on rails before trenches, etc. and four gunners (numbered) (Plan view) A pointer indicates a bullet hole in the car. Cut to 52 & 53 SCENE close_up of car. Pointer is in. Small view: Car in motion (very slow) Bullet from No. 2 is 54 SCENE moving toward it. Cut to close up of car showing how bullet enters moving object- Holes are left at angles.

55 TITLE

A passenger in the car would say: "The shot came at an angle from No. 4."

You, standing outside the car, know it was fired in a straight line by No. 2.

56 SCENE

Position indicates the upper hole, and connects white line through bullet holes-goes out of scene. Long shot, white line is connected to No. 4. Dotted line of No. 2 is in picture. Note "A line drawn through the holes indicates No. 4." Note "But in reality No. 2 fired the shot."

57 TITLE

Another instance of confusion of ideas caused by Relativity of Motion.

"Is this man moving forward?"

58 SCENE

Man in boat alking towards the camera.

59 TITLE

In relation to the boat, he moves forward.

Suppose we change our position. What will we see?

60 SCENE

Man in boat walking but making no progress in relation to the the white board on the landscape.

61 TITLE

The man moves forward in relation to the boat -but he stays in the same place in relation to the white square on the shore.

This is an instance of Relativity of/Motion.

62 SCENE

View of man in boat walking but making no progress.

SO TATLE

We have so far seen everything from our position on the earth Suppose we change our viewpoint, this time to a position outside the to earth and follow Einstein into starry space.

63 TITLE We have so far seen everything from our position on the earth Suppose we change our viewpoint, this time to a position outside the earth, and follow Einstein into starry space. 64a SCENE Of large rocket in the distance ready to be shot off. 64b TITLE 64c SCENE Our Pilot into Space! Offman putting on warm clothing and mask. R ocket in distance. It flashes fire and sweeps off (cut to) View of Rocket over city. (cut to) View of city dropping. (cut to) View of clouds in sky. (cut to) View of Rocket in 64d SCENE flight. 65 TITLE As we dash away, our Earth diminishes in size -- and in importance. 66 SCENE Earth growing smaller as we dash away from it. Make earth gradually vanish to nothing. 67 TITLE Millions of miles from the earth! Here in space, we stop and look back. Will our impressions of what happens on earth now remain the same (cut to) View of rocket in flight. It stops and telescope appears on top of it. 68 TITLE The first thing we find. We have lost our sense of direction. View of the earth. An arrow rises and points up Follow with 69 SCENE other notes in same sequence. Note appears -- To the man on earth the arrow always points up. To us out here in space, it points in all directions. -770 TITLE

Direction is seen to be only <u>relative</u>. What we called "Up" and "Down" while on earth is meaningless to us out in space.

This is again shown when two captains on earth order flags "raised" on their vessels.

71 SCENE

View of earth. V^e ssels on either side raise their Ilags. Note appears reading: "Are both flags \underline{Up} as we look at them from our position out here in space?"

72 TITLE

Out here our compass is useless-there is no "East" or "West!"

73 SCENE

View of earth in space. Sun at right. Note appears reading:
"A man on earth will say that the <u>East</u> is on the right, because the earth turns in that direction—" An arrow dades in and points towards the sun.

74 TITLE

But will East always be on our right?

Let us get another view of the planets from our rocket window.

75 SCENE

View of earth in space with arrow as in scene 24. The entire universe revolves, with the arrow. When the arrow indicates the exact opposite direction. Note appears reading: "Is East on the right now?"

76 TITLE

Even the fall of a ball on earth is no longer simple, now that we have discovered that direction is indefinite.

77 SCENE

Ball falls straight down on stationary tracks (on rails)

78 TITLE

Straight down while the truck is stationary- But suppose the truck moves.

79 SCENE

View of ball falling on truck in motion. As the ball falls it leaves two thin dotted lines. Note appears reading: "This is the line of direction in relation to the truck." (Indicate) Note: "This is the line of direction in relation to the earth. (Indicate(

8 O TITLE

Watch the ball drop from the tower.

81 SCENE

Ball dropping from high tower. Ball drops and leaves a fine dotted line.

82 TITLE

"The ball dropped straight down" -- say the people on earth.

83 SCENE

Smaller view of high tower, as the earth moves the ball falls and leaves a fine dotted line in space. Note appears during this scene reading: When the action is completed. Note fades in reading "This is the "fall" we saw. (indicate)

84 TITLE

Another problem in direction.

How would you draw the line of a cannon ball shot straingt up from earth?

85 SCENE

Cannon shooting straight up. Note fades in-Course of projectile in relation to earth straight up and down.

86 TITLE

But Einstein says, "This is your straight up-and-down line:"

87 SCENE

88 TITLE

The reason: ____

-9-

SCENE 89 View of earth in motion as bullet goes straight up on earth, but forms a wide semi-circle as regards space. Note fades in : "From our position out here in space, we see a straight up and down course on earth like this. TITLE So, up and down to you may be sideways to me: --Direction is relative Fade in And so os SIZE: ____ 91 SCENE View of a large balancing boulder. What was your impression of the size of the stone? How large? 92 TITLE How small? Look again. 93 SCENE Same view of large boulder as in scene -91. 94 TITLE Watch how your impression of size is changed by comparing the stone with another object.

View of boulder as in previous scene. The camera moves back revealing the boulder to be a small stone in the hand.

Take this principle of the relativity of Size out into space. Is the earth large?

View of earth between sun and moon. Note appears reading:
"The earth is large when compared with the moon? " Note: But
very small when compared with the sun.

Then -- is the sun large?

95 SCENE

96 TITLE

97 SCENE

98 TITLE

99 SCENE

Sun, moon and earth—Note appears reading: "How the sun compares in size with the star Betelgeuses." The star is placed near the sun for comparison? The sun now looks very small. Note: "Betelgeuse 90,000 times larger in area than the sun." Note: "And Betelgeuse may be small by comparison with a greater star."

100 TITLE

Large or samll means nothing without comparison. Therefore, Size is relative.

And so is Speed.

Fade in Follow the flight of a bullet.

101 SCENE

Diagram of a cannon on black background. A white mark representing a bullet moves across the chart indicating its speed to be (33) miles per minute.

102 TITLE

Fast?

103 SCENE

Diagram of earth in motion on its orbit around the sun. Note appears reading: "The earth travels around the sun at a speed of 1,100 miles per minute."

104 TITLE

Bullet: (33(miles per minute.

Earth: (1100) miles per minute.

Fade in In space, the earth would rush past a bullet so quickly that the bullet would appear to be going backward.

105 SCENE

View of earth in space passing projectile.

106 TITLE

Well then, is the earth fast?

Yes and no.

Compare it with other planets. The earth is the third from the sun.

107 SCENE

View of many planets in motion in space.

108 TITLE

Fast or slow has no absolute meaning. Speed is relative.

109 TITLE

But there is ONE SPEED that is not relative.

The Speed of Light-ALWAYS 186,000 miles a second!

110a TITLE

Fizeau showed that light was different from anything else. No current could make it go factor or slower. Fade in First watch two submarines.

110b SCENE 110cTITLE

110gTITLE

110hSCENE llOiTITLE

110 | SCENE

LICKTITLE 1101SCENE

Just a flash of the tubes and the submarines in them. Two submarines, one travelling in still water, the other in running

water. 110dSEENE

Same scone again.

In the lower tube, the current helps the boat.

110eTITLE Same scene The boats now return. The lower boat now moves against 110fSCENE

the current and loses its speed.

This time the lower boat must fight its way against the currebt

and loses speed.
Continuation of preceding scene to conclusion.

Light moves differently from the boats. Currents will not affect

its speed.

The arrows represent light rays.

Scene of the light -- rays moving in the ether current.

Current does not change the speed of light!

Finish scene to conclusion.

111&112 TITLE

This surprising independence of the speed of light may be illustrated. as follows: --

113 SCENE

Two pistols attached to a wheel at opposite sides -- both pistols are aimed in the same direction. The wheel begins to revolve, slowly at first. (counter clock) (target at left)

114 TITLE

The two pistols will be discharged at the same instant while the wheel spins.

115 SCORE

The wheel turns faster and faster until its spokes are no longer visible. Both pistols are discharged at the instant one is directly above the other. Cut to a target (white board) Two white flashes are seen and two bullet holes.

116 TITLE

If this experiment were "slowed up" we should see the <u>light-flashes</u> racing ahead of the bullets.

117 SCENE

Same wheel and pistols as in previous scene. The wheel moves slowly and after a few revolutions the pistols are simultaneously discharged. Two light flashes are seen to leave the barrels, and two bullets begin their course towards the target. The light flashes move much faster than the bullets, but they both keep the same distance apart. One of the bullets (upper) overtakes the other (lower)

118 TITLE

Note that the upper bullet, discharged with the turn of the wheel, moves faster than the lower one, fired against the turn of the wheel.

119 SCENE

Continuation of the wheel action as in previous scene.

120 TITLE

Though the bullets travel with <u>different</u> speeds, both flashes of light travel with the <u>same</u> speed.

121 SCENE

Same as previous scene, action continued. Cut to target. Both light flashes arrive at the smae time. The bullets now arrive, the upper one much sooner than the lower.

122 TITLE

The upper and lower light flashes strike the target at the smale instant. (OUT)

123 TITLE

The spinning wheel quickens the speed of the upper bullet, and slows down that of the lower, but does not affect the speed of the light flashes!

124 SENE

Finish bullet light -- flashes scene.

125 TITLE

FIRING AT THE MOON

Carry the demonstration on the small spinning wheel out into space and apply it to our big spinning wheel -- the Earth.

126 SCENE

View of earth and moon. The earth is in motion. The experiment proceeds. Note: "Two projectiles will be fired simultaneously at the moon." At the proper intervals, the titles following will be cut in. Projectiles are fired.

127 TITLE

Both flashes of light travelling at a speed of 186,000 miles per second, arrive at the same time!

128 TITLE

Both bullets discharged with same force. Speed of upper, 2980 miles per hour! Speed of lower, 980 miles per hour!

Fade in Because the earth's speed of rotation (1,000 miles per hour) is added to the upper bullet and subtracted from the lower.

129&130 TITLE

Lower bullet arrives 165 hours after the upper.

131 SCENE

Firing at the moon to conclusion.

132 TITLE

Einstein was quick to take advantage of the fact that he could measure both Time and Space with the Speed of Light -- With one second of Time he could measure 186,000 miles of Space. Cross dissolve to and with 186,100 miles of Space he could measure the passing of one second of Time.

Like this _____

133 SCENE

THE LIGHT SPEED YARDSTICK

-TIME ONE SECOND TIME

134 TITLE Let us first look at a simple demonstration showing that Time is not the same for people in different places. Cross dissolve to Two towers flash signals at the SAME TIME to a balloonist and to a man on the ground. Man on earth and man in balloon. The balloon is in motion. The rays of light reach the man on earth together. In the balloon the light rays differ in the time of their arrival. Title: "The ob-135 SCENE server on the ground says the signals were given from both towers at the same time." Note: Light rays from both towers are the same lenght. But the balloonist insists that one towere signalled before the other." Note: The light ray from the right tower required a longer period of time to read the balloonist. 136 TITLE The line in the next scene represents the distance light travels in two seconds. 137 SCENE White line on black screen. After it has travelled a certain distance a note appears reading: "372,000 miles in two seconds." Imagine these huge clocks to be two different planets. 138 TITLE A light-ray is sent out. 139 SCENE Two globes upon which are clocks. The ray of light moves out. It travels 362,000 miles. The clocks are indicated and are shown to read two seconds each. 140 TITLE So far, the Time-measurements agree. But when one planet (or clock) moves----Two globes as in previous scene. As the ray of light moves out, the lower globe also moves along in the same direction but half the speed of light. The ray of light travels 372,000 miles. The 141 SCENE lowere planet half that distance. 142 TITLE But now consider the lower clock-When it ticks off two seconds of time the light ray is only 186,000 miles ahead of it. According to the yardstick the clock should regist er only one second! Note: This clock should register only 1 second. Cut back to end of Scene 151. 143 SCENE

EINSTEIN'S SOLUTION

144 TITLE

145 SCENE

146 TITLE

Time stretches and shrinks in proportion to speed: What you saw as two seconds on the upper planet shrinks to one second on the faster-sspeeding lower planet.

Or, in our earth-language, an hour for us may be a century on on another planet and vice-versa!

Same as last diagram. The lower planet, which was in motion shows a loss of 1 second. Note: The length of time which represents 2 seconds on the upper planet means only one second on the lower planet.

A mechanical illustration of this theory that time is shortened in propertion to speed.

Scene 147

Wheel mounted horizontally. A chock is attached to the rim of the wheel and another clock is placed on the table. Both clocks is show 6 second markings. Both clock hands move together. They keep the same time.

148 TITLE

These two clocks, while at rest, keep the same time. But see the effect of speed.

149 SCENE

The wheel begins to revolve and continues until it attains a high rate of speed. High as possible. Then it slows down, and a comparison of the watches is made. The watch on the wheel has lost two seconds.

150 TITLE

We could not measure Time because it is relative: _-that is, it is not the same in different places. Can we measure Length (Space)?

151a TITLE

EINSTEIN'S FAMOUS TRAIN EXAMPLE He pictures a train millions of miles long, rushing through Spae at terrific speed. We slow it up to be able to see what happened.

151b TITLE

152 Scene

Train on rail. The train moves out, as it moves over the rail on its return the rear lamp is flashed by the trip. A light ray moves from the rear to the front of the train and lights up the front trip. The train is now brought back and the difference in

length pointed out.

of light.)

m 4 m - - -150

TITLE

153

Out in on Scene 152 Einstein tries to measure the length of this imaginary train while it is in motion by using our scientific yardstick (the speed

154 TITLE

Out in on Scene 153 The white line. shows the progress of the ray of light (186,000 miles per second) Note - Length objained by light measurements. Noteactual length.

Bitle

Cut in on Scene 152 Compare the actual length of the train with the measurement obtained with the light-ray.

156 Title

This time, Einstein measures with the light-ray moving in the opposite direction.

157 Scene

Same train as in previous scene, the light on the front end is tripped. The light-ray travels to the rear of the train and trips the rear lamp. The train is again brought back and the difference in length pointed out.

This time, Einstein measures with the light-ray moving in

the opposite direction.

158 Title

In the clock scene Time differed according to the speed of the planet, and the train example shows that length also vary according to speed.

We find that an hour here may be an hour a second elsewhere and that our mile, seen upon another planet, may measure only

a few inches!

159 Title

WE HAVE SEEN THAT Motion is relative Direction is relative Size is relative Speed is relative Time is relative All Measurement is relative.

160 Title

One by one, Einstein sweeps away every accepted action. For instance, he makes the astounding assertion that "Space is bent!" This is the idea which Einstein said only twelve men in the world could understand: -- X D issolve to

161 Title

He claims that light, which was supposed to travel in a straight line, is "bent" when it passes through space near a big body like the sun.

162 Scene

Diagram- Sun, Moon, Earth and a Star. Note: A single ray will be used for this illustration. Ray shoots out from star to earth curving around the sun.

163 Title

How a light ray from a star is bent by the "curved space" around the dun.

164 Scene:

Same as previous bent light-ray going to earth from star, passing the sun and bending inward. The ray goes to the earth. (Indicate) Note(a): "Notice ho the bent light-ray causes the telescope to be wrongly directed as regards the star's actual position."

Note(b): "The observer on earth sees the star here."

165 .Title:

The nearer the sun, the more the light-rays bend.

166 Scene:

Begin of scene depicting many light rays travelling from the star, past the sun, to the earth.

167 Title:

Looking at the star at different times we see it in different positions.

168 & 169 Scene:

Finish of many light rays scene.

170 Title:

Einstein even predicted exactly how far the stars would seem pushed out of epace place.

During the eclipse of 1919, many expeditions were sent out to test his theories, and this is what their telescopes revealed----

171 Scene:

A large telescope with man operating it.

172 Scene:

View of interior of telescope showing the sun, and some black crosses.

173 Title:

The black crosses indicate the positions where the stars were expected to appear, according to the old theory.

Scene:

Same as previous. Cut to man looking through smoked glass at the eclipse. Cut to the moon; a darek enters and slowly blots out the face of the sun. As it does so, the surrounding sky becomes dark and the stars shine, but not where they were expected.

175 Title:

Note the difference between the black crosses(where the stars were expected to appear) and the actual position of the stars as predicted by Einstein.

176 Scene:

Same as previous scene. The stars and the black crosses are clearly visible. (Indicate)

Fade Out.

177 Title:

Incidentally, these sun flames, visible only during an eclipse, shoot a million miles out into space, and supply the earth's light and heat.

178 Scene:

Sun flames shooting up from sun.

179 Title:

All our lives we have been taught to measure things in THREE dimensions, but Einstein adds a FOURTH____TIME !

He there is not only a Right and Left Up and Down Backward and Forward but ALSO SOONER AND LATER (the "fourth dimension") without which nothing in the universe can be measured or described!

180 Title:

This theory has opened an unlimited field for speculations, dreams and fantasies.

Let our imagination again carry us out into space. We will see the years leaving the earth with the speed of light

181 Scene:

Small earth at right in black sky. The years, in the form of numbers issue from the earth. 1922 is just emerging. At intervals we see the years that have preceded.

182 Title

A man is shot from the earth to overtake the speeding years.

183

Scene:

Same as last. A puff indicates the start of the man. A white dot races towards the left. As it does, the earth and its numbers begin to race towards the right. The movement of the numbers increase in speed until only blurs move by. They slow up when 1492 has been overtaken and come to a stop.

184 Title:

Racing forward at tremendous speed, he flies backward through the centuries!

He looks behind and finds
His former past is now his future!

185

185

Scene: Same as last. From the white spot representing the man a large note emerges as if he is saying "Columbus is now in the act of discovering America."

186 Title:

WHAT DOES IT ALL MEAN TO US?

The same question was asked when Sir Isaac Newton gave us his Theory of Gravitiation. Yet it bacame the bashs for the most astounding progress in the World's history. Most of our modern inventions grew out of Newton's Theory.

But, now that Einstein has revolutionized Newton's Theory, who can say what NEW forces will be harnessed, what NEW energies released, what marvellous steps forward made? It may be the beginning of a civilization as different from ours, as ours is different from that of our camedwelling ancestors.

187 Title:

And, with the syes of the world turned upon him, there sits in a quiet little study in Europe, a genius ever delving ever deeper into the mysteries of the Universe.

188 Scene:

Portrait of Prof. Albert Einstein.

FADE OUT

Total Length- About 4000 feet.

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